

# POST WAR SETTLEMENT OF VETERANS IN ALBERTA

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## FOREWORD

This report deals with the progress achieved by a group of World War II veterans established on farms in Alberta under the Veterans Land Act. The study was carried out by the Economics Division, Canada Department of Agriculture, in co-operation with the Veterans Land Act Administration. Officials of the Veterans Land Act were interested in an appraisal of the progress of veterans established under their supervision, and officials of the Department of Agriculture are concerned with similar problems facing farmers in the newly settled frontier areas and farmers starting to farm under a family transfer arrangement. The study should be of particular value to the veterans themselves in the management of their farm businesses. They were supplied with financial summaries of their respective businesses for each year of the study; these summaries enabled them to appraise their financial progress and determine which factors were the most likely to lead to a profitable exploitation and development of their farm resources.

The study emphasizes the financial aspects of the farm business. The information collected relates to three of the more important types of farming in Alberta; the general crop-livestock type in west central Alberta, a general irrigation crop-livestock type in the Eastern Irrigation District, and a dryland wheat-cattle type in southwestern Alberta.

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#### **ACKNOWLEDGMENT**

Officials of the Veterans Land Act Administration gave advice and assistance throughout the course of the study, and the co-operation of the veteran settlers who provided the basic information deserves especial mention, for without this co-operation the study could not have been made.

A large part of the organization of this study, as well as the early interviews and guidance of individual co-operators, was done by Mr. Thos. Askin, formerly an Economist with the Economics Division, Canada Department of Agriculture. The writer gratefully acknowledges this most important contribution to the present report.

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## POSTWAR SETTLEMENT OF VETERANS IN ALBERTA

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#### INTRODUCTION

## Scope and Method of Study

The settlement of veterans after World War II presented the Veterans Land Act Administration with many problems. Once placed on his farm the veteran himself faced many problems. Increased mechanization and technological changes in modern farming have accentuated farm investment and organization problems. These problems, however, are more acute for beginning than for older-established farmers.

In order to throw some light on these problems a study of postwar settlement was made in 1946 among a group of V.L.A. settlers in the Red Deer-Lacombe area of central Alberta. This study is designed to supply information regarding the rate of progress of settlers and to determine the more important factors and practices affecting the rate of progress. Farmers were encouraged to keep accounts and records, as a means of providing information to be used in the successful management of their farms. The size of the sample was enlarged and the scope of the study was widened by the inclusion in 1949 and 1950 of the Brooks area (located in the Eastern Irrigation District) and a wheat area around Claresholm and Vulcan.

Farm Organization. - Mixed farming is the predominant type of farming in the Red Deer-Lacombe and in the Brooks areas, which covered most of the Eastern Irrigation District, also represented a mixed farming type of organization. The chief distinction between these two districts was the practice of irrigation in the Brooks area. Wheat was an important cash crop in both of these areas, although the irrigation farmers grew considerable "soft wheat". Specialty crops did not occupy a large place in the farming organization of the irrigation farmers who co-operated in the study.

The farm organization in the Claresholm-Vulcan area emphasized wheat as a cash crop, this being a typical wheat area of Western Canada.

One visit each year was made to the co-operating farmers during the course of the study. At the time of this call information available in account books kept by the veterans was transferred to a special form while information not recorded in these account books was also gathered at this time.

Some co-operators had their own system of keeping records and accounts. However, most co-operators used the "Farm Account Book" prepared by the

<sup>&</sup>lt;u>l</u>/ Economics Division, Marketing Service, Canada Department of Agriculture, University of Alberta, Edmonton.

Economics Division, Canada Department of Agriculture. A copy of this account book was distributed to the co-operators each year. The skill with which the farmers kept these accounts increased from year to year. Some co-operators kept very complete and detailed records but others kept few records even after several calls. Many men received help from their wives in keeping the farm records. On many farms much of the purchasing and business was carried on by both the husband and wife, making their combined interest in the farm accounts and records very important.

Following analysis of these accounts, the co-operating farmer received each year a confidential report comparing his financial statement with the average of the sample in the district in which he farmed.

The accounting system used in analyzing the accounts was a single entry, accrual system. As most of these farmers filed their income tax on a cash basis and preferred to keep their accounts on this basis, it was necessary to adjust these accounts in order to use them for the accrual system. That is, expenses not paid for during the current year were added, and expenses paid for but pertaining to a previous period were deleted. Receipts were adjusted in the same manner if this was necessary and inventory changes were taken into account.

One commonly used measure of the financial progress on a famis the change of net worth which occurs from year to year. How this measure should be interpreted depends largely on the methods used in valuing inventory. An increase in net worth may be because the farm has been operated at a profit or it may be the result of rising prices. A decrease in net worth could mean the business has been operated at a loss, or could result from a declining price level. A lower net worth may also mean the farm income has not been large enough to meet living expenses.

To maintain the farmer's equity when the price level is increasing, it may be necessary to increase investment in the farm business. Moreover, when prices of commodities purchased by the farmer are rising, liabilities may have to be increased in order to maintain the farm capital.

An increase in investment in the farm by the farmer commonly takes the form of increases in inventories of livestock and buildings or in the reduction of the mortgage. In discussing the change of net worth the methods used in valuation of farm inventories will be described.

This report has been divided into three parts; Part I deals with a group of 15 farmers from the central Alberta area near Red Deer and Lacombe. The records of these 15 farmers are included in this part because they gave records in all five years that the study was carried on in that district.

Part II deals with comparisons between the three areas studied for veterans giving continuous records over a period of time. In central Alberta the above 15 records were increased to 21 as this

number of settlers gave records in 1947, 1948, 1949 and 1950. In the irrigation district at Brooks, 29 veterans gave records in 1949 and 1950, and in the wheat area around Vulcan and Claresholm there were 30 who gave records in 1949 and 1950.

Part III deals with the total number of records taken each year in the three districts. As some co-operators dropped out each year for various reasons and new co-operators were added, these results do not represent a constant sample.

## PART I - PROGRESS OF FIFTEEN V.L.A. FARMERS IN CENTRAL ALBERTA

The year 1946 was a beginning year for many of the 15 farmers included in the sample for central Alberta. At the end of that year, however, most of these settlers had their available resources organized and were ready to start full-time farming.

## Change in Net Worth

The net worth of these 15 farmers had increased by \$4,187, on the average, from the end of 1946 to the end of 1950.

Table 1.- Net Worth Statement, Average for 15 V.L.A. Farms in the Red Deer-Lacombe Area of Alberta, 1946-1950

	, Do a 21	l:Dec. 31	• Doc 21	1Don 21	· Don 2
	: 1946		: 1948		
	· 1940		dollars	The state of the s	: 1950
a con section of the sales			uullals	Walder Park	
Real estate	5,654	5,880	6,288	7,106	7,356
Livestock	1,112	1,578	2.119	2,231	3,418
Equipment	2,298	2,852	3,071	3,164	3,850
Grain, feeds and supplies	1,008	1,299	1,478	744	972
All other assets	1,268	1,156	1,332	1,053	990
Total assets	11,240	12,765	14,288	14,298	16,586
Total liabilities <u>a</u> /	3,316	3,162	3,167	3,535	4,375
Net worth	8,024	9,603	11,121	10,763	12,211
Net worth change from previous year		1,579	1,518	-358	1,448

 $<sup>\</sup>underline{a}$ / Assumes fulfilment of V.L.A. contract terms by the settlers.

This change in net worth from an average of about \$8,000 per farm in 1946 to over \$12,000 per farm in 1950 came about through increased investment. In some cases settlers had replaced worn-out machinery by machinery then selling at higher prices and had increased the amount

of machinery. Increased prices for livestock brought about an increase in livestock inventory valuations; there were also increases in the numbers of livestock on farms. Improvements were made to land and buildings on most farms. Increase of net worth also came about through V.L.A. payments and thus helped increase the veteran's equity in his farm.

## Relation of Liabilities and Assets to Change in Net Worth

Increases in assets and decreases in liabilities cause an increase in net worth, whereas decreases in assets and increases in liabilities result in a decrease in net worth. Table 2 summarizes the above relationships for the 15 farms over the four-year period.

Table 2.- Change in Net Worth, Average for 15 V.L.A. Farms in the Red Deer-Lacombe Area of Alberta, 1947-1950

	: Ratio of	0	Increase	0	Decrease	0	Increase	•
	assets to	0	in	0	in	•	in	:Change in
Year	:liabilities	a 0	assets	0	liabilities		liabilitie	s:net worth
				cente	dollars -			
1947	4.0		1,425		154		A YELL DUK AT	1,579
1948	4.5		1,523				5	1,518
1949	4.0		10				368	-358
1950	3.8		2,288				840	1,448
Total								4,187

The table shows the average changes in assets and liabilities for these farms. The value of assets increased in all of the four years in which the change in net worth was measured, but only in one year during the period were liabilities reduced during the year.

Table 3 shows the trend of the various farm assets, total assets, liabilities, and net worth. These have been calculated as indexes, using 1946 as the base year.

Table 3.- Indexes of Assets and Liabilities, Using 1946 as the Base Year, for 15 V.L.A. Farms in the Red Deer-Lacombe Area of Alberta

	: Dec. 31 : 1946	: Dec. 31: : 1947 :		Dec. 31 1949	: Dec. 31 : 1950
		- p	er cent -		
Real estate	100	104	111	126	130
Livestock	100	142	190	201	307
Equipment	100	124	134	138	168
Grain, feeds and supplies	100	129	147	74	96
All other assets	100	91	105	83	78
Total assets	100	112	126	126	146
Total liabilities	100	95	96	107	132
Net worth	100	120	138	134	152

The real estate inventory increased by 30 per cent over the four years and was mainly the result of clearing and breaking new land, improvements to buildings, and electrification of farms. The real estate inventory was not revalued to the higher price level for land which prevailed in 1950.

The livestock inventory increased by 207 per cent and this was brought about by an increase in the livestock population and also by increases in the level of prices for livestock. The annual livestock inventories were revalued at current market prices.

The equipment inventory increased by 68 per cent in value as a result of increased amounts of machinery on the farms and the fact that machinery had been replaced from time to time by higher priced machines. Depreciation of special machinery (tractors, trucks, combines etc.) was on the basis of original cost 1/2 except in a few cases where original cost was not known and replacement costs were used. The general equipment inventory (plows, mowers, tiller combines, etc.) was brought on to the books at market value and depreciated on a reducing balance method. 2/2

The grain, feeds and supplies inventory moved up and down in value over the years, reflecting the variations of grain and other feed values and also the amounts of grain and feed held over at the end of the year. The slight difference of four per cent between 1946 and 1950 would indicate that about the same amounts of grain and feed (supplies made up only a small portion of the inventory) were held on hand at the end as at the beginning of the period under review, since slightly lower values prevailed in 1950 than in 1946.

All other assets, including household effects, bonds, life insurance, accounts receivable, cash bank deposits, etc., had decreased in value by 22 per cent over this period. One of the significant features in this inventory was a reduction in the amount of money held in bank balances and in bonds.

13th and subsequent years - 9 per cent

Depreciation of original cost or replacement cost was calculated on a gross depreciation rate and an allowance made for repairs to arrive at a net depreciation. A reducing rate type of depreciation was used for arriving at the gross depreciation, e.g.

combines 1st year - 18 per cent

2nd year - 16 per cent

3rd year - 16 per cent

<sup>4</sup>th to 12th - 15 per cent

<sup>2/</sup> The diminishing balance method system of depreciation means that a percentage of the remaining value is deducted each year for depreciation. A gross constant depreciation rate of 19 per cent was used and an allowance made for repairs to arrive at a net depreciation. There was one exception in the net depreciation rate of ten per cent for the first year on the original cost and the balance remaining became part of the general machinery inventory for future depreciation. This system ensured that a balance would never disappear for the general machinery.

The overall effect of these various influences on the assets position was to increase the total value of the assets by 46 per cent during the period.

During these same four years the total liabilities had also increased by 32 per cent. These increases of liabilities were brought about mainly as the result of borrowings for the purchase of machinery, improvements to buildings, and electrification of farms.

The combined effect of these changes in the assets and liabilities was to give an average increase in net worth of 52 per cent from the end of 1946 to the end of 1950.

The ratio of assets to liabilities was 4.0 in 1946 and 3.8 in 1950. This would indicate that financial strength of the settlers' business had remained rather stable during the five-year period.

## Farm Capital

The four main categories of farm capital constituted the major portion of assets on these farms. These were: (1) real estate, (2) livestock, (3) equipment and (4) grain, feeds and supplies.

The real estate inventory, although it increased steadily in value, accounted for a smaller share of the farm capital in 1950 than in 1946. A revaluation of this inventory to the higher price level for farms which prevailed in 1950 would have changed this relationship. The machinery inventory continued to have about the same share of the farm capital throughout the period. The livestock inventory value had doubled as a proportion of total farm capital from 1946 to the end of 1950, largely as a result of much higher prices for cattle. The average number of animal units carried through the year had increased by 34 per cent. A breakdown of the livestock inventory values showed the greatest gain to have been in the value of the cattle inventory.

Table 4.- Farm Capital, Average for 15 V.L.A. Farms in the Red Deer-Lacombe Area of Alberta, 1946-1950

	Dec.		: Dec.		Dec.		<b>D</b> ec.		: Dec. : 195	
	0	:Per	0	:Per	0	:Per	•	:Per	0	Per
	Dollars	cent	Dollars	:cent	:Dollars	cent	:Dollars	:cent	:Dollars	:cent
Real estate	5,654	56	5,880	51	6,288	49	7,106	53	7,356	47
Livestock	1,112	11	1,578	14	2,119	16	2,231	17	3,418	22
Equipment	2,298	23	2,852	24	3,071	24	3,164	24	3,850	25
Grain, feeds										
and supplies	1,008	10	1,299	11	1,478	11	744	6	972	6
Total	10,072	100	11,609	100	12,956	100	13,245	100	15,596	100

Table 5.- Livestock Values, Average for 15 V.L.A. Farms in the Red Deer-Lacombe Area of Alberta, 1946-1950 a/

	: Dec. 31 : 1946	: Dec. 31 : 1947	: Dec. 31 : 1948	Dec. 31	: Dec.31 : 1950
	en stadt des e		- dollars -		
Horses	66	97	80	53	53
Cattle	722	877	1,459	1,462	2,518
Hogs	266	548	515	664	793
Sheep	çanı	-	10	100-	-
Poultry	58	56	55	52	54
Total	1,112	1,578	2,119	2,231	3,418

a/ The livestock values are the average end year valuations of the livestocks inventories for these 15 V.L.A. farms.

#### Net Farm Income

The level of net farm income varied over the four years (Table 6). The net farm income shows the returns to the operator for his labour and management and also for the farm capital. If he owns all his farm capital then the return will all be his own, but if some of his farm capital is borrowed then interest on the borrowed money must also be paid from this sum.

Table 6.- Income Statement, Average for 15 V.L.A. Farms in the Red Deer-Lacombe Area of Alberta, 1947-1950

	: Dec. 31 : 1947	: Dec. 31 : 1948 :	Dec. 31 1949	: Dec. 31 : 1950
enregalante kanakata aturi in		- dolla		
Inventory increase Equipment sales Current receipts	1,780 85 3,332	1,862 248 4,178	1,407 303 3,621	2,659 599 4,002
Total receipts	5,197	6,288	5,311	7,260
Inventory decrease Capital expenditure Current expenses	243 1,686 1,418	516 1,806 1,717	1,117 1,997 1,523	308 2,686 1,974
Total expenses	3,347	4,039	4,637	4,968
Net farm income Less interest on capital @ 5%	1,850 542	2,249 614	694 655	2,292 721
Labour income	1,308	1,635	39	1,571
Use of house Produce used	116 346	135 410	149 504	151 423
Labour earnings	1,770	2,180	692	2,145

In 1949 some capital disinvestment was required to bolster the low net income of that year. In 1950, however, this disinvestment was recovered, and investment by the co-operators in their farm business was resumed.

In Table 7, capital expenditures and sales and their offsetting entries have been excluded. Depreciation was included under farm expenses rather than as a change in the beginning and closing inventory values. This type of summary is utilized in calculating the various ratios.

Table 7.- Summary Income Statement, Average for 15 V.L.A. Farms in the Red Deer-Lacombe Area of Alberta, 1947-1950

		lars -	
3,721	4,398	2,666	4,883
1,871	2,149	1,972	2,591
1,850	2, 249	694	2,292
	3,721 1,871	3,721 4,398  1,871 2,149	- dollars - 3,721 4,398 2,666 1,871 2,149 1,972

The statement in Table 6, although satisfactory for calculating net farm income, does not provide a satisfactory method for calculating gross farm income or farm expenses, figures which were required for the computation of various ratios. Inclusion of capital inventory increases as receipts in Table 6, even though these would be offset by capital expenditures, would distort the ratios and comparisions between farms and between years. Thus the gross income figure in Table 7 represents only the gross income that was earned by the farm business during the year, and expenses includes only the expenses incurred during the year. Comparisons for gross income and farm expenses can then be made between farms and for the same farm in different years.

Table 8.- Ratios, 15 V.L.A. Farms in the Red Deer-Lacombe Area of Alberta, 1947-1950

	1947:	1948 :	1949 :	1950
Gross ratio	50	49	74	53
Ratio of net farm income to gross farm income	50	51	26	47
Rate of turnover	34	36	20	34
Years for gross income to equal average invested capital	2.9	2.8	5.0	2.9

Gross Ratios. - This ratio shows the percentage of gross income consumed by expenses. The gross ratio is found by comparing total expenses with gross income as a percentage. This ratio is a measure of the efficiency of the business. The gross ratio is considered in relation to gross income. An efficient gross ratio on a small gross income could easily mean a smaller net farm income than a less efficient gross ratio on a larger gross income. This type of ratio would seem to have less significance in farming areas where gross income is very variable, because of yield or price fluctuations. Difficulty is then encountered in reading the ratios directly without also looking at the yield and prices of a particular year for interpretation of the relationships as favourable or otherwise. The unfavourable ratio of 74 in 1949 is related to the poor yields of that year (Table 9).

Table 9.- Production and Financial Records, 15 V.L.A. Farms in the Red Deer-Lacombe Area of Alberta, 1947-1950

entral at the control of the control	: Unit	: : 1947	: 1948	: : 1949	: : 1950
Total acres in wheat	acres	152	158	292	407
Number of farms having wheat	number	6	6	9	10
Average yield per acre	bushels	33	30	18	24
Acres in oats	acres	463	473	380	448
Number of farms having oats	number	15	12	11	13
Average yields per acre	bushels	38	37	18	32
Acres in barley	acres	777	688	765	1,070
Number of farms having barley	number	14	13	13	15
Average yield per acre	bushels	24	28	13	19
Total number of hogs sold (15 farms)	number	221	414	310	594
Average value per hog	dollars	33	45	41	33
Total number of cattle sold(15 farms	number	60	69	87	90
Average value per head	dollars	73	98	104	130
Total income from sale of poultry					
and eggs (15 farms)	dollars	1,923	1,861	2,396	2,167

Ratio of Net Farm Income to Gross Farm Income. This ratio, like the gross ratio, is expressed as a percentage and it shows how much of the gross income is represented by net farm income. This ratio must also be related to the volume of business. A large profit margin with a small volume of business would, of course, yield a low net farm income.

The Rate of Turnover Index. - This index, as used here, represents the gross income per one hundred dollars of average invested capital. The years required for gross income to equal average invested capital is another means of showing this same relationship.

An unfavourable relationship in these ratios could be the result of inefficient farm management. However, low relative yields and low prices are also responsible. The unfavourable showing in 1949 could be traced directly to low yields. Because farm success depends on biological factors such as crop yields, pronounced year-to-year changes can be expected in these ratios in areas of variable climate.

## PART II - THREE COMPARISONS OF PROGRESS MADE BY SETTLERS IN ALBERTA AREAS

Part II contains a comparative analysis of the progress of settlers in the following three areas:

- (a) Central Alberta -21 farmers in the Red Deer-Lacombe area cooperated continuously from 1947 to 1950 inclusive.
- (b) Irrigation area 29 farmers in the Eastern Irrigation District area around Brooks co-operated during 1949 and 1950.
- (c) Wheat area -30 farmers in the Vulcan-Claresholm area co-operated during 1949 and 1950.

The farms in these samples were selected so that the date of starting farming would be similar in all districts studied.

## Change in Net Worth

The "net worth at the start" (Table 10) includes the value of the V.L.A. grant. All of the net worth figures are calculated on the assumption that the terms of the V.L.A. contracts will be met and, thus, the full benefits of the grant received. Failure to meet these conditions would reduce net worth by \$2,320 on most farms as liabilities would be increased by this amount.

Table 10 - Net Worth Statements, Averages for Co-operators Giving Continuous Records

(a)	Central	(Alberta) (Red	Deer-Lacombe	Area)	Average	for	21	V.L.A.	Records
-----	---------	----------------	--------------	-------	---------	-----	----	--------	---------

9	At	: Dec. 3	1: Dec. 3	1: Dec. 3	31: Dec. 3	1: Dec. 31
	start	: 1946	: 1947	: 1948	: 1949	: 1950
directly united and a			- d	ollars -		
Real estate	mile 23	5,910	6,248	6,683	7,326	7,827
Livestock		1,111	1,535	2,065	2,202	3,098
Equipment		2,366	2,934	3,383	3,560	4,139
Grains, feeds and supp	lies	754	1,545	1,663	1,044	1,384
All other assets		1,568	1,591	1,488	1,340	1,165
Total assets		11,709	13,853	15,282	15,472	17,613
Total liabilities		3,333	3,236	3,271	3,399	4,166
Net worth	6,223	8,376	10,617	12,011	12,073	13,448
Change in net worth			2,241	1,394	62	1,315
Total change in net wo	rth					7,225

(b) Irrigation (Brooks Area), Average for 29 V.L.A. Farms

	0	At	0	Dec. 31		31 : Dec. 31
	0	start	0	1948	: 1949 dollars -	: 1950
Real estate				4,140	5,955	6,379
Livestock				1,037	1,686	3,228
Equipment				3,620	4,383	4,708
Grains, feeds and supplies				578	705	767
All other assets				1,931	1,594	1,286
Total assets				11,306	14,323	16,368
Total liabilities	omeriumen.			2,893	3,807	4,691
Net worth		5,190		8,413	10,516	11,677
Change in net worth					2,103	1,161
Total change in net worth						6,487
(c) Wheat (Vulcan-Clareshol	m Area),	Averaç	ge í			Sm.o.r
(c) Wheat (Vulcan-Clareshol	•	At	ge f	Dec. 31:	Dec. 31	: Dec. 31
(c) Wheat (Vulcan-Clareshol	•				Dec. 31 1949	: Dec. 31 : 1950
(c) Wheat (Vulcan-Clareshol	•	At		Dec. 31 : 1948 :	Dec. 31 1949	
Real estate	•	At		Dec. 31: 1948: - doll	Dec. 31 1949 ars -	: 1950
101.1 918 . 101.1 188	•	At		Dec. 31: 1948: - doll 7,283	Dec. 31 1949 ars -	; 1950 9,130
Real estate Livestock Equipment	•	At		Dec. 31: 1948: - dol1 7,283 1,286	Dec. 31 1949 ars - 8,180 1,684	9,130 1,923
Real estate Livestock	•	At		Dec. 31: 1948: - doll 7,283 1,286 3,920	Dec. 31 1949 ars - 8,180 1,684 5,433	9,130 1,923 5,658
Real estate Livestock Equipment Grains, feeds and supplies	•	At		Dec. 31: 1948: - dol1 7,283 1,286 3,920 1,378	Dec. 31 1949 ars - 8,180 1,684 5,433 2,166	9,130 1,923 5,658 935
Real estate Livestock Equipment Grains, feeds and supplies All other assets	•	At		Dec. 31: 1948: - doll 7,283 1,286 3,920 1,378 2,663	Dec. 31 1949 ars - 8,180 1,684 5,433 2,166 2,557	9,130 1,923 5,658 935 2,527
Real estate Livestock Equipment Grains, feeds and supplies All other assets Total assets	8 6 6	At		Dec. 31: 1948: - dol1 7,283 1,286 3,920 1,378 2,663	Dec. 31 1949 ars - 8,180 1,684 5,433 2,166 2,557 20,020	9,130 1,923 5,658 935 2,527 20,173
Real estate Livestock Equipment Grains, feeds and supplies All other assets Total assets Total liabilities	8 6 6	At		Dec. 31: 1948: - dol1 7,283 1,286 3,920 1,378 2,663 16,530 4,078	Dec. 31 1949 ars - 8,180 1,684 5,433 2,166 2,557 20,020 4,374	9,130 1,923 5,658 935 2,527 20,173 4,780

The rate of gain in net worth was greatest but also the most variable on the farms in the wheat area. The gain in net worth on the irrigated farms was slower than in the other areasstudied, but the rate of gain was more consistent.

Table 11.- Change in Net Worth, Averages for Co-operators
Giving Continuous Records

## (a) Central Alberta (Red Deer-Lacombe Area), Average for 21 V.L.A. Farms

	Ratio of	: Increase	: Decrease	: Increase	;Change
	assets to	in	in	in	:in net
Year	: liabilitie	s: assets	:liabilities	:liabilities	: worth
143			- dollars -		
1947	4.2	2,144	97	_ =	2,241
1948	4.6	1,429		35	1,394
1949	4.5	190		128	62
1950	4.2	2,141		766	1,375

## (b) Irrigation (Brooks Area) Average for 29 V.L.A. Farms

	0	Ratio	of:	Increase	: Dec	rease	0	Increase	:Change
	0	assets	to :	in	0	in	0	in	:in net
Year _	0	liabili	ties:	assets	:liab				s: worth
					- do	llars -			
		301 4							
1948		3.9							
1949		3.7		3,017		_		914	2,103
1950		3.4		2,045		-		884	1,161

## (c) Wheat (Vulcan-Claresholm Area), Average for 30 V.L.A. Farm

add a second	: Ratio of	Increase	: Decrease	: Increase :	Change
	assets to	in	: in	in :	in net
Year	: liabilities:	assets	:liabilities	:liabilities:	worth
			- dollars -		
1948	4.1				
1949	4.6	3,490	_	296	3,194
1950	4.2	153	_	406	- 253
F00 71	24-0-11				

With the exception of 1947 for central Alberta, when liabilities were decreased, liabilities and assets increased in all years for these districts. In 1950 in the wheat area liabilities increased more than the assets. The ratio of assets to liabilities indicates that settlers in the irrigation districts had a poorer long-time financial position than settlers in the other two districts.

#### Farm Capital

Comparisons between the three districts show some differences in the farm capital structure. On farms in the irrigation area, a relatively high percentage of the capital was tied up in machinery and a relatively smaller amount in real estate as compared to the other two districts.

Table 12.- Farm Capital and Its Disposition, Averages for Co-operators Giving Continuous Records

## (a) Central Alberta (Red Deer-Lacombe Area), Average for 21 V.L.A. Farms

	Dec.		Dec. 3		Dec. 3		: Dec.		: Dec.	
	0 1/-	:Per		:Per		:Per	-	Per		:Per
	:Dollars	:cent	Dollars	<u>:cent</u>	:Dollars	:cent	:Dollars	cent	:Dollars	:Cent
Real estate	5,910	58	6,248	51	6,683	48	7,326	52	7,827	48
Livestock	1,111	11	1,535	12	2,065	15	2,202	16	3,098	19
Equipment	2,366	23	2,934	24	3,383	25	3,560	25	4,139	25
Grains, feeds										
and supplies	754	8	1,545	13	1,663	12	1,044	7	1,384	8
Total	10,141	100	12,262	100	13,794	100	14,132	100	16,448	100

## (b) Irrigation (Brooks Area), Average for 29 V.L.A. Farms

	Dec. 31			0 00	Dec. 31 1949			: Dec.	
	0	Dollars:		000	Dollars			: Dollar	:Per
Real estate		4,140	44		5,955		47	6,379	42
Livestock		1,037	11		1,686		13	3,228	22
Equipment Grains, feeds and supplies		3,620 578	39		4,383 705		34 6	4,708 767	31 5
Total		9,375	100		12,729	10	00	15,082	100

## (c) Wheat (Vulcan-Claresholm Area), Average for 30 V.L.A. Farms

1922/4 18 1137 66 10	: Dec. :		Dec.		: Dec.	
	0	:per	0	: Per	•	: Per
	:Dollars	:cent	Dollars	: cent	:Dollars	: cent
Real estate	7,283	53	8,336	47	9,123	52
Livestock	1,286	9	1,684	10	1,923	11
Equipment	3,920	28	5,433	31	5,658	32
Grains, feeds and supplies	1,378	10	2,166	12	935	5
Total	13,867	100	17,619	100	17,645	100

There was a rapid increase of capital in the irrigation area, which reflected mostly in the livestock inventory. Livestock inventory values increased also in the other two areas, although, in the wheat area, they did not vary very much as a proportion of total farm capital.

Table 13.- Livestock Values, Averages for Co-operators Giving Continuous Records

## (a) Central Alberta (Red Deer-Lacombe Area) Average for 21 V.L.A. Farms

	: Dec.	31 946		c. 31 947	: <b>D</b> e : 19	c. 31 48		c. 31 949	0	Dec. 31 1950
	6 0	:Per		:Per	0	:Per	0	:Per		:Per
	: Dolla	rs:cen	t:Dolla	rs:cen	t:Dolla	rs:cen	t:Dolla	rs:cen	t:Doll	ars:cent
Horses	74	7	94	6	87	5	64	3	61	2
Cattle	694	62	888	58	1,381	67	1,369	62	2,076	
Hogs	287	26	498	32	484	23	671	30	769	
Sheep	_	_	_	_	61	3	46	2	135	4
Poultry	56_	5	55	4	51	2	52	3	56	3
Total	1,111	100	1,535	100	2,065	100	2,202	100	3,097	100

## (b) Irrigation (Brooks Area), Average for 29 V.L.A. Farms

	:Dec.31, 1	948	:Dec. 31,	1949:	Dec. 3	1, 1950
	0	: Per	•	:Per :		:Per
	: Dollars	: cent	: Dollars	:cent:	Dollar	s:cent
Horses	56	5	66	4	46	1
Cattle	781	74	1,210	72	2,551	79
Hogs	98	9	273	16	432	13
Sheep	90	8	90	5	160	5
Poultry	29	4	48	3	39	2
Total	1,054	100	1,686	100	3,228	100

## (c) Wheat (Vulcan-Claresholm Area), Average for 30 V.L.A. Farms

		<b>D</b> ec.		Dec. 3		: <b>D</b> ec.	
		0 0	Per:	0	Per	• 0	Per
		: Dollars:	cent:	Dollars:	cent	:Dollars:	cent
Horses		20	2	37	2	40	2
Cattle		1,165	90	1,445	86	1,681	87
Hogs		65	5	165	10	150	8
Sheep		8	***	8	_	21	1
Poultry		28	3	28	2	31	2
Total		1,286	100	1,684	100	1,923	100

Cattle made up a very large portion of the livestock industry in the wheat area and also represented a large share of the farm capital in both central Alberta and the irrigation district. Hogs showed a larger inventory value in Central Alberta but also played a significant role in the irrigation area. Hogs placed a relatively small part in the farm organization on the wheat farms. The practice of buying feeders through Livestock Associations was a large factor in the increased livestock inventory valuations appearing in the central Alberta and in the irrigation areas.

## Farm Income

The following table indicates the income position of the farms in each of the areas studied. Production data relating to income are summarized in Table 15.

Table 14.- Income Statement, Averages for Co-operators Giving Continuous Records

(2)	Central	Alberta	(Red	Deer-Lacombe	Areal	Averages	for	21	VIA	Farme
(g)	Central	Alberta	aneu	Deer-Lacombe	Area),	Averages	TOL	41	V. L. A.	rarms

	ending :		ending	: ending
	:Dec. 31,1947		1 ars -	19: Dec. 31, 195
Inventory increase	2,311	2,021	1,363	2,702
Equipment sales Current receipts	139 3,436	205 4,403	483 3,985	585 4,440
a zach viscog a vanabasi a				
Total receipts	5,886	6,629	5,831	7,727
Inventory decrease Capital expenditure	190 1,741	489 2,013	1,023 2,058	387 2,795
Current expenses	1,545	1,844	1,700	2,029
Total expenses	3,476	4,346	4,781	5,211
Net farm income Less interest on capital	2,410	2,283	1,050	2,516
at five per cent	559	651	698	764
Labour income	1,851	1,632	352	1,752
Use of house Produce used	117 294	130 394	140 487	141 412
Labour earnings	2,262	2,156	979	2,305

## (b) Irrigation (Brooks Area), Averages for 29 V.L.A. Farms

	For year ending : Dec. 31, 1949	:Dec. 31, 1950
	- de	ollars -
Inventory increase Equipment sales Current receipts	3,568 163 5,072	2,813 556 4,270
Total receipts	8,803	7,639
Inventory decrease Capital expenditure Current expenses	469 3,616 2,113	460 2,608 2,112
Total expenses	6,198	5,180
Net farm income Less interest on capital at 5 per cent	2,605 552	2,459 694
Labour income Use of house Produce used	2,053 160 296	1,765 170 309
Labour earnings	2,509	2,244

# (c) Wheat (Vulcan-Claresholm Area), Averages for 30 V.L.A. Farms

	: For : : year ending : :Dec. 31, 1949: [	year ending
	- doll	ars -
Inventory increase Equipment sales Current receipts	4,078 668 7,385	2,014 363 5,637
Total receipts	12,131	8,014
Inventory decrease Capital expenditure Current expenses	483 3,962 2,871	1,828 2,487 2,306
Total expenses	7,316	6,621
Net farm income Less interest on capital at 5 per cent	4,815 783	1,393 879
Labour income Use of house Produce used	4,031 136 21	514 162 234
Labour earnings	4,388	910

The income statement shows the level of income over the years as measured by net farm income, labour income and labour earnings. The net farm income was low for the central Alberta group for 1949 and for the wheat area in 1950. By looking at the yield data in Table 15 it can be seen that grain yields for these districts were low in these years.

Table 15.- Production and Financial Records, Averages for Co-operators Giving Continuous Records

## (a) Central Alberta (Red Deer-Lacombe Area)

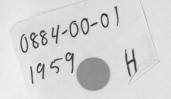
	: : Unit	: 1947:		: 1949	: : 1950
Acres in wheat (total of group)	acres	222	326	630	875
Number of farms having wheat Average wheat yield per acre	number bushels	10 33	11 31	14 18	13 26
Acres in oats (total of group)	acres	570	562	428	511
Number of farms having oats Average oat yield per acre	number bushels	20 40	16 36	16 19	16 33
Acres in barley (total of group)	acres	1,229		1,003	1,326
Number of farms having barley Average barley yield per acre	number bushels	20 29	19 28	18 14	20 21
Number of hogs sold (total of group)	number	298	513	418	817
Average value per hog	dollars	36	45	410	38
Number of cattle sold (total of		70	01	107	107
group) Average value per head	number dollars	70 74	91 92	187 70	127 118
Total income from sale of poultry					
and eggs	dollars	2,068	2,405	3,264	3,176
Average size of farm Average acres of cropland Average per cent of cropland	acres	229 156	233 1.75	244 183	265 203
to total farm	per cent	68	75	75	77

# (b) Irrigation (Brooks Area)

ner est symmetre audick beschool andiel Tit mala en des Definations enemy cantale an test	: : Unit	: 1949	1950
Acres in wheat (total of group) Number of farms having wheat Average wheat yield per acre	acres	1,767	1,490
	number	28	27
	bushels	29	26
Acres in oats (total of group) Number of farms having oats Average oat yield per acre	acres	465	535
	number	22	21
	bushels	45	40
Acres in barley (total of group) Number of farms having barley Average barley yield per acre	acres	445	501
	number	18	20
	bushels	34	24
Acres in alfalfa hay and seed (total of group) Number of farms having alfalfa	acres	748	755
	number	25	25
Number of hogs sold (total of group)	number	143	371
Average value per hog	dollars	39	40
Number of cattle sold (total of group)	number	22	96
Average value per head	dollars	112	146
Total income from sale of poultry and eggs	dollars	1,168	1,264
Average size of farm  Average acres cropland  Average per cent of cropland to total farm	acres acres per cent	223 147 66	147 66

# (c) Wheat (Vulcan-Claresholm Area)

	: Unit	: 1949	: 1950
Acres in wheat (total of group) Number of farms having wheat Average wheat yield per acre	acres number bushels	6,37 <b>3</b> 29 19	6,100 29 14
Acres in oats (total of group) Number of farms having oats Average oat yield per acre	acres	192	266
	number	10	17
	bushels	27	23
Acres in barley (total of group) Number of farms having barley Average barley yield per acre	acres	689	438
	number	12	11
	bushels	15	18
Number of hogs sold (total of group)	number	115	203
Average value per hog	dollars	43	38
Number of cattle sold (total of group)	number	98	143
Average value per head	dollars	196	144
Total income from sale of poultry and eggs	dollars	1,750	1,107
Average size of farm Average acres cropland Average per cent of cropland to total farm	acres	513	514
	acres	424	413
	per cent	83	80



#### Ratios

As mentioned in Part I, the summary income statement given in Table 14 was not satisfactory for the computation of ratios. Thus, in Table 16, capital expenditures and capital sales and their offsetting entries have been omitted, and depreciation included in farm expenses.

Table 16.- Income Statement, Average for Co-operators Giving Continuous Records

(a)	Central	Alberta	(Red	Deer-Lacombe	Area).	Averages of	21	V. I. A.	Farms
(U)	CHICTAT	MINOTOU	MILCH	DOOL LUOUMDO	MICU,	TINCTUGOSOI			LULIND

	0	1947		10/18	0	1949 :	1050
	0	1941	0			1949 :	1950
				uo	110	AL D	
Gross income		4,440		4,629		3,260	5,202
Farm expenses (includes depreciation)	_	1,990		2,346		2,211	2,686
Net farm income		2,410		2,283		1,049	2,516
(b) Irrigation (Brooks Area), Averages	for	29 V.L	. A.	Farm	s		
			9	19	49	•	1950
				ija, b	_	dollar	
Gross income				5,3	00	_	,315
Farm expenses (includes depreciation)				2,6			, 855
Net farm income				2,6	05	2	460
		-					460
	rage	es for	30				., 460
	rage	es for	30				2,460
	rage	es for	30		. F	arms	950
	rage	es for	30	V.L.A	. F	Carms	950
(c) Wheat (Vulcan-Claresholm Area), Ave	rage	es for	30	V.L.A	. F	arms	950 s -
(c) Wheat (Vulcan-Claresholm Area), Ave	rage	es for	30	V.L.A	. F 9 -	arms  : : : dollar	950
	rage	es for	30	V.L.A	9 - 53	arms  i 1  dollar	950 s -

The low relative yields in central Alberta in 1949 and in the wheat area in 1950 are revealed in the poor showing of the ratios for these years in Table 17. The favourable ratios for 1949 in the wheat area reflected the high income average for that year.

Table 17.- Ratios, Averages for Co-operators Giving Continuous Records

(a) Central Alberta (Red Deer-Lacombe Area), Averages for 21 V.L.A. Farms

	:1947	1948	:1949	: 1950
Gross ratio	45	51	68	52
Net farm income to gross farm income ratio	55	49	32	48
Rate of turnover	36	34	23	32
Years for gross income to equal				
average invested capital	2.8	3.0	4.3	3 3.2
(b) Irrigation (Brooks Area), Averages for 29	V.L.A. Fa	rms		
		: 1949	•	1950
Gross ratio Net farm income to gross farm income ratio Rate of turnover		51 49 42		54 46 35
Years for gross income to equal average invested capital		2.4		2.8
(c) Wheat (Vulcan-Claresholm Area), Averages	for 30 V.L	A. Fa	rms	
	for 30 V.L	<b>a</b>	:	1950
	for 30 V.L	A. Fa	:	1950
(c) Wheat (Vulcan-Claresholm Area), Averages	for 30 V.L	: 194	9:	
(c) Wheat (Vulcan-Claresholm Area), Averages	for 30 V.L	: : 194	9:	68
(c) Wheat (Vulcan-Claresholm Area), Averages :  Gross ratio Net farm income to gross farm income ratio	for 30 V.L	: : 194 41 59	9	68 32
	for 30 V.L	: : 194	9	68

## PART III - CHANGES IN INCOME AND NET WORTH ON ALL FARMS

Part III deals with changes in income and net worth for all the farms included in the study. This sample of farms is not a constant sample; some operators dropped out each year for various reasons and new cooperators were contacted. They do, however, constitute a larger sample and are thus more representative of conditions, within a year, for the veteran population in the three districts. Comparisons between districts are more accurate but year to year changes within the districts are not as satisfactory for analysis.

Table 18. Income Statement, Averages for All Records
Obtained in Each Year

## (a) Central Alberta (Red Deer-Lacombe Area)

Number of farms

	: 1947:	: 1948 : - doll		1950
Gross farm income Farm expenses (include depreciation)		4,837 2,783		
Net farm income	2,418	2,074	1,469	2,792
Number of farms	33	32	29	27
(b) Irrigation (Brooks Area)				
		: 194		1950
			- doll	ars -
Gross farm income Farm expenses (includes depreciation)		5,6		,315
Net farm income		2,8	16 2	, 460
Number of farms			36	29
(c) Wheat (Vulcan-Claresholm Area)				
		•		
		: 19	49 : dollars	1950
Gross farm income		8,1		, 408
Farm expenses (includes depreciation)				,015
Net farm income		4,8	19 1	, 393

33

30

There are no essential differences in the relationships, between the three districts, from those discussed in Part II. Figures are simply based on a larger and probably more representative sample.

## Change in Net Worth

Table 19.- Net Worth Statement, Averages for All Records
Obtained in Each Year

(a) Central Alberta (Red Deer-Lacombe Area)

		ec. 31:			l: <b>D</b> ec. 3:	l:Dec. 31
	:start:	1740 8		ollars -	. 1747	: 1950
Real estate Livestock Equipment Grains, feeds and supplies All other assets		5,538 1,010 2,371 780 1,518	5,906 1,490 2,911 1,560 1,472		2,240 3,502 1,182	7,701 3,120 4,251 1,774 1,207
Total assets Total liabilities		1,217 3,245	13,339 3,279	14,797 3,515		18,053 4,470
Net worth	5,880	7,972	10,060	11,282	11,932	13,583
Change in net worth			2,088	1,222	650	1,651
Total change in net worth						7,703
Number of farms	31	33	33	32	29	27
(b) Irrigation (Brooks Ar	ea)	: At	: De	ec. 31 :	Dec. 31	: Dec. 3
		: star	ct:	1948 :	1949 ollars -	: 1950
				- u	ollars -	
Real estate Livestock Equipment Grains, feeds and supplies All other assets		<i>ii</i> 2011	1 3	1,572 ,809 3,428 623 ,995	6,369 2,673 4,205 867 1,548	6,379 3,228 4,708 767 1,286
Total assets			12	2,427	15,662	16,368
Total liabilities			3	3,086	3,890	4,691
Net worth		5,693	3 9	341	11,772	11,677
Change in net worth					2,431	-95
Total change in net worth						5,984

## (c) Wheat (Vulcan-Claresholm Area)

	0	At	. 0	Dec. 31	0 0	Dec.	31 :	Dec. 31
	0	start	0	1948	;	19		1950
				- dol	la	cs -		
Real estate				7,068		7,8	91	9,130
Livestock				1,213		1,5	52	1,923
Equipment				3,904		5,3	70	5,658
Grains, feeds and supplies				1,426		2,2	54	935
All other assets				2,533		2,5	53	2,527
Total assets				16,144		19,62	20	20,173
Total liabilities	-			4,017		4,3	14	4,780
Net worth		6,088		12,127		15,30	06	15,393
Change in net worth						3,17	79	87
Total change in net worth								9,305
Number of farms		33		33		3	33	30

## CONCLUSIONS

In the course of or following a study of the financial aspects of a farm business the interviewed farmer is likely to compare the findings for the group of farms under study with the situation on his own farm. The question then inevitably arises as to what types of records and accounts to keep, and their practicability and usefulness.

There is no one answer to this question, the types of records and accounts to be kept depending mostly on the type of farm organization and the farmer's ability and desire to keep detailed records of his activities and transactions. For example, a larger number of and more complicated records and accounts are required for a mixed farm than for a specialized grain farm. There is also a marked difference between the types of records and accounts required in irrigation districts and in wheat-producing areas.

Nevertheless, production records and financial accounts have become an almost essential part of the good management of a commercial farm. Success of farming depends largely on crop yields, amount of rainfall, efficiency of feeding, etc., and a farmer will thus need to keep records of such things as the quantity of milk produced, the amount of feed used, the rate of application of fertilizer, the dates of planting and harvesing, crop yields, crop rotations, and many others.

The job of selecting the most profitable enterprise or combination of enterprises becomes much easier when a farmer maintains detailed financial accounts and physical records. Many of the farmers who co-operated in this study kept complete financial accounts but very few kept complete physical records. However, as the financial accounts accumulated over a few years the need for these physical records was more and more apparent to the co-operators and good progress was being made in expanding the use of these types of records.

Enterprise accounts should be considered separately and in relation to the whole farm business. If a certain farm enterprise does not show a profit it does not necessarily mean that it should be dropped from the farm plan. This particular enterprise may contribute to some other profitable activity on the farm or it may be making use of materials, labour, or equipment which otherwise would be idle. It is preferable to have a small loss on one particular enterprise rather than a larger loss on the farm business as a whole. The converse of this will also be true; that is, if an enterprise does show a profit there may be a conflict with some other enterprise for the use of resources. It could be that the other enterprises might make an even greater use of the resources and thus a larger net income would result if they were used on the other enterprises.

Another way in which records and accounts are useful to a farmer is in showing him where he is headed financially. They will show how much income he is making and whether he is progressing or falling back financially. Records and accounts must of course be analyzed and this requires some understanding of the principles involved.

On many farms discouragement may come about even when financial progressis being made, because of the practice of making too rapid increases in investments on the farm out of income, leaving little for family living expenses. For the same reason, farm operators may also find themselves low on funds for payment of previously incurred debts.

The variability of farm income is also another reason why discipline is required in the matter of capital investment and the spending of income for family living. Capital accumulation and savings in farming commonly take the form of increases in inventories of livestock and equipment, and improvements to land and buildings. In years of low net income or in years when losses have been incurred some disinvestment is justifiable.

The average increase in net worth attained by the veterans included in this study was brought about by several factors. Because of a rising level of prices all of this increased net worth did not mean a corresponding increase in security and operating efficiency. Increasing prices for machinery during these years accounted for the larger investments, made necessary to maintain or increase the mechanization of the settlers farms. Enlargement of the cattle inventory came about partly from purchases at higher prices or from building up stock from cattle which had a high sale value.

However, an increase was required in the working capital over these

years to meet the rising costs. This increase of capital was brought about by an increase in the investment by the veteran as well as by his creditors. This increase in investment, and in settlers' equity and levels of living were the well-deserved rewards of years of effort and intelligent management.

## SUMMARY

- A. Progress of 15 V.L.A. farmers in Central Alberta.
- 1. The 15 V.L.A. farmers from the Red Deer-Lacombe area of Central Alberta averaged \$4,187 gain in net worth from the end of 1946 to the end of 1950.
- 2. Their farm capital real estate, livestock, equipment, grain, feeds and supplies inventories had increased, on the average, by \$5,524, from the end of 1946 to the end of 1950.
- 3. The average real estate inventory value was \$5,654, and represented 56 per cent of the farm capital at the end of 1946; it had increased to \$7,356 and represented 47 per cent of the farm capital at the end of 1950.
- 4. The average livestock inventory value was \$1,112 and represented 11 per cent of the farm capital at the end of 1946; it had increased to \$3,418 and represented 22 per cent of the farm capital at the end of 1950.
- 5. The average equipment inventory value was \$2,298 and represented 23 per cent of the farm capital at the end of 1946; it had increased to \$3,850 and represented 25 per cent of the farm capital by the end of 1950.
- 6. The average grain, feeds and supplies inventory value was \$1,008 and represented ten per cent of the farm capital at the end of 1946; it was \$972 and represented six per cent of the farm capital at the end of 1950.

Comparisons of Progress made by Settlers in Three Alberta Areas.

- 1. In central Alberta, 21 V.L.A. farmers achieved an average gain in net worth of \$7,225 during the 1946-50 period. In the Eastern Irrigation District, 29 farmers gained an average of \$6,487 and in the wheat growing area of Vulcan-Claresholm, 30 V.L.A. farmers had an average gain in net worth of \$9,156 over the same period.
- 2. At the end of 1950 real estate averaged \$7,827 per farm on farms in central Alberta, \$6,379 on those in the irrigation district and \$9,123 per farm on farms in the wheat growing area.
- 3. Livestock, also at the end of 1950, average \$3,097 per farm for the group of farms in central Alberta, \$3,228 for those in the irrigation district and only \$1,923 per farm for the wheat farms in the Vulcan-

#### Claresholm area.

- 4. The value of farm equipment averaged \$4,139 per farm on the farms in central Alberta, and \$4,708 and \$5,658 on the irrigation and wheat farms, respectively.
- 5. Grain, feeds and other supplies inventories were highest for the group of farms in central Alberta. They averaged \$1,384 per farm compared to \$767 per farm for the irrigation farms and \$935 for the wheat farms.



